

IN THE CLAIMS

1. (Currently Amended) An electronic self contained viscous liquid dispenser, comprising:

a housing defining an internal liquid reservoir, said housing including a front surface having an opening therethrough adjacent a bottom surface of said reservoir;

a dispensing pump mechanism carried by said housing and disposed in liquid communication with said reservoir, said pump mechanism having a delivery end disposed for delivering metered doses of viscous liquid from said reservoir;

a mounting assembly configured for mounting on a supporting wall structure, said housing with internal liquid reservoir and dispensing pump mechanism being completely removable from and replaceable relative to said mounting assembly, when attached to said mounting assembly, said housing defining a front visible surface of said dispenser;

an electronic actuating mechanism carried by said mounting assembly and comprising a motor driven actuator that engages with said pump mechanism upon insertion of said housing into said mounting assembly;

a motor and associated power supply circuitry carried by said mounting assembly, said motor in driving engagement with said motor driven actuator; and

wherein said dispensing pump mechanism is movable in a horizontal direction relative to said housing for actuation thereof, said motor driven actuator comprising a member slidable in a horizontal path to engage and move said dispensing pump mechanism to a dispensing position.

2. (Currently Amended) ~~The dispenser as in claim 1,~~ An electronic self contained viscous liquid dispenser, comprising:

a housing defining an internal liquid reservoir, said housing including a front surface having an opening therethrough adjacent a bottom surface of said reservoir;

a dispensing pump mechanism carried by said housing and disposed in liquid communication with said reservoir, said pump mechanism having a delivery end disposed for delivering metered doses of viscous liquid from said reservoir;

a mounting assembly configured for mounting on a supporting wall structure, said housing with internal liquid reservoir and dispensing pump mechanism being completely removable from and replaceable relative to said mounting assembly, when attached to said mounting assembly, said housing defining a front visible surface of said dispenser;

an electronic actuating mechanism carried by said mounting assembly and comprising a motor driven actuator that engages with said pump mechanism upon insertion of said housing into said mounting assembly;

a motor and associated power supply circuitry carried by said mounting assembly, said motor in driving engagement with said motor driven actuator;

wherein said dispensing pump mechanism is movable in a horizontal direction relative to said housing for actuation thereof, said motor driven actuator comprising a member slidable in a horizontal path to engage and move said dispensing pump mechanism to a dispensing position; and

wherein said dispensing pump mechanism comprises a linearly slidable cylinder having a delivery channel defined therethrough terminating at said delivery end, said cylinder being slidable within a substantially horizontally disposed pump chamber defined within said reservoir, said motor driven actuator slidable in a horizontal path to engage and move said cylinder to a dispensing position within said pump chamber.

3. (Previously presented) The dispenser as in claim 2, wherein said cylinder is drivingly engaged by said motor driven actuator as said cylinder moves from a rest position to a dispensing position and drivingly disengaged with said motor driven actuator as it moves from said dispensing position to said rest position.

4. (Previously presented) The dispenser as in claim 2, wherein said pump chamber is formed integral with said housing within said reservoir and has a back end open to said reservoir and a front end open to an outside of said housing, said delivery end of said pump cylinder extending out of said front end of said chamber and engaged by said motor driven actuator.

5. (Currently Amended) The dispenser as in ~~claim 4~~ claim 2, wherein said motor comprises an off-center drive cam engaged within an elongated cam surface defined in said motor driven actuator such that rotational movement of said motor is converted to linear movement of said motor driven actuator.

6. (Currently Amended) ~~The dispenser as in claim 5,~~ An electronic self contained viscous liquid dispenser, comprising:

a housing defining an internal liquid reservoir, said housing including a front surface having an opening therethrough adjacent a bottom surface of said reservoir;

a dispensing pump mechanism carried by said housing and disposed in liquid communication with said reservoir, said pump mechanism having a delivery end disposed for delivering metered doses of viscous liquid from said reservoir; _____

a mounting assembly configured for mounting on a supporting wall structure, said housing with internal liquid reservoir and dispensing pump mechanism being completely

removable from and replaceable relative to said mounting assembly, when attached to said mounting assembly, said housing defining a front visible surface of said dispenser;

an electronic actuating mechanism carried by said mounting assembly and comprising a motor driven actuator that engages with said pump mechanism upon insertion of said housing into said mounting assembly;

a motor and associated power supply circuitry carried by said mounting assembly, said motor in driving engagement with said motor driven actuator;

wherein said dispensing pump mechanism is movable in a horizontal direction relative to said housing for actuation thereof, said motor driven actuator comprising a member slidable in a horizontal path to engage and move said dispensing pump mechanism to a dispensing position;

wherein said motor comprises an off-center drive cam engaged within an elongated cam surface defined in said motor driven actuator such that rotational movement of said motor is converted to linear movement of said motor driven actuator;
and

wherein said motor driven actuator comprises an elongated plate member slidably supported in said mounting assembly at a position below said housing, said plate member having a front end engaged with said pump mechanism, said slot defined in an opposite back end of said plate member, and further comprising an opening defined in said front end of said plate member aligned with said delivery end of said pump mechanism.

7. (Currently Amended) The dispenser as in ~~claim 1~~ claim 2, further comprising a battery power supply carried by said mounting assembly.

8. (Currently Amended) The dispenser as in ~~claim 1~~ claim 2, wherein said mounting assembly comprises an enclosed back unit mountable against the supporting wall structure, said motor and associated power supply contained within said back unit, said motor driven actuator horizontally disposed below said back unit.

9. (Original) The dispenser as in claim 8, wherein said housing is supported entirely by said back unit.

10. (Original) The dispenser as in claim 9, further comprising a mounting mechanism configured between said housing said back unit, said mounting mechanism comprising a mounting bracket provided on said back unit and a recess formed integrally in a back side of said housing, said recess further comprising side walls having engaging structures defined thereon for engagement with complimentary structure provided on said mounting bracket.

11. (Original) The dispenser as in claim 10, wherein said recess has dimensions so that said complimentary structure on said mounting bracket fits entirely within said recess, wherein upon mounting said housing to said mounting assembly, said back side of said housing is flush against a front wall of said back unit.

12. (Currently Amended and Withdrawn) The dispenser as in ~~claim 1~~ claim 2, wherein said mounting assembly comprises an enclosed top unit disposed above said housing, said motor and associated power supply contained within said top unit, said motor driven actuator horizontally disposed below said housing, and further comprising a gear drive between said motor and said motor driven actuator.

13. (Currently Amended and Withdrawn) The dispenser as in ~~claim 4~~ claim 2, wherein said mounting assembly comprises a base unit, said motor driven actuator slidable within said base unit.

14. (Withdrawn) The dispenser as in claim 13, wherein said housing is restable on said base unit.

15. (Withdrawn) The dispenser as in claim 13, wherein said housing is supported by said mounting assembly above said base unit.

16. (Withdrawn) The dispenser as in claim 13, wherein said motor and associated power supply are contained in said base unit.

17. (Currently Amended) The dispenser as in ~~claim 4~~ claim 2, wherein said electronic actuating mechanism comprises a manual initiator.

18. (Currently Amended) The dispenser as in ~~claim 4~~ claim 2, wherein said electronic actuating mechanism comprises a sensor configured to actuate said electronic actuating mechanisms upon sensing the presence of a user.

19. (Currently Amended) The dispenser as in ~~claim 4~~ claim 2, wherein said housing further comprises a manual actuator configured with said dispensing pump mechanism.

Claims 20 through 33: **Cancelled.**